

September 21, 2010

VILLAGE PLUMBING COMPANY
RICHARD WEGNER
6819 MILWAUKEE AVE.
MILWAUKEE WI 53213

BRAC SYSTEMS
RONALD ARSENAULT
3612-3614 POIRIER
VILLE ST-LAURENT MONTREAL, QUEBEC,
H4R 2J5, CANADA

Re: Description: GRAYWATER REUSE SYSTEM
Manufacturer: BRAC SYSTEMS
Product Name: BRAC SYSTEMS
Model Number(s): RGW 150, RGW 250, RGW 350 AND RGW 450
Product File No: 20100323

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of September 2015.

This approval supersedes the approval issued on June 4th, 2008 under product file number 20080183.

This approval is contingent upon compliance with the following stipulation(s):

- A plumbing plan must be submitted and approved prior to each proposed installation in accordance with Comm 82.20 (1) (a) 2. A Plumbing Plan Review must be successfully completed prior to each proposed installation. A minimum of four sets of completed plans and specifications, signed by a Wisconsin registered Architect, Designer, Engineer or licensed Master Plumber shall be submitted along with the following specific information:
 - a. A "Plumbing Plan Review Application" (i.e. SBD-6154) and required fee;
 - b. A scaled plot plan;
 - c. A scaled floor plan;
 - d. A drain, waste and vent system (i.e. DWV) isometric drawing for the engineered blackwater/graywater system;
 - e. A non-potable water system isometric drawing;
 - f. A potable water system isometric drawing;
 - g. A maintenance manual addressing all serviceable components or systems;
 - h. A written contingency plan; and
 - i. Water calculation worksheets:
 - 1. The complete non-potable water system; and
 - 2. The complete potable water system
 - j. A copy of this approval letter

For system installations that include irrigation and/or infiltration, the following information must also be provided:

- k. The soil type; and
- l. Infiltration rate

After the plan review process is complete, and the installation is finished, the State Plumbing Consultant assigned to the county in which the installation is located, shall inspect the completed installation. The final installation shall be completed and passed before the system is put into service. Some of the information listed previously may not pertain to a specific installation.

- Monitoring of these systems shall be performed by licensed POWTS Maintainers, Master Plumbers or licensed professional Engineers. The maintenance of these systems may be performed by an unlicensed individual.
- Installation and servicing of these systems must be performed in accordance with the manufacturer's written instructions and this approval letter. A copy of the manufacturer's installation and servicing instructions, and a copy of this approval letter, must be given to the owner of each system and kept on site.
- The overflow line serving these devices must be properly trapped and vented. The vent must terminate outside of the structure.

A backwater valve is not an acceptable alternative to the aforementioned trap and vent.

- The overflow line running from these devices to the building sewer must discharge via an acceptable air gap/air break.
- If there is a discrepancy between the manufacturer's published installation instructions and this approval letter, then this approval letter shall take precedence.
- Kitchen wastewaters shall not be conveyed to this device.
- The maximum total flow into these devices is 27 gpm. The total maximum load factor is 27 drainage fixture units as referenced by s. Comm 82.30 (3) (a).
- If these approved plumbing products are modified, or additional assertions of function or performance are made, then this approval shall immediately be considered null and void, unless the change is submitted to the department for review and the approval is reaffirmed.
- The use of solid chlorine/bromine tablets is mandatory; a detectable free chlorine/bromine residual must be present in the storage tank at all times. The type of tablets, and potential sources of supply are described in the manual for these devices; such tablets are readily available at pool/spa supply stores.
- These devices are not approved for the treatment of blackwater. Blackwater shall not be conveyed to these devices.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

Glen W. Schlueter
Engineering Consultant-Plumbing Product Reviewer
Bureau of Integrated Services
Safety and Buildings Division
Department of Commerce
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GWS:gws